



PTO/SB/21 (02-04)

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**TRANSMITTAL
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(to be used for all correspondence after initial filing)

Application Number	10/716,369
Filing Date	November 18, 2003
First Named Inventor	BANEY et al.
Art Unit	1755
Examiner Name	
Attorney Docket Number	5853-464

Total Number of Pages in This Submission

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
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<input type="checkbox"/> Response to Missing Parts/Incomplete Application	<input type="checkbox"/> Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Neil R. Jetter AKERMAN SENTERFITT
Signature	
Date	April 21, 2004

CERTIFICATE OF TRANSMISSION/MAILING

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Signature		Date	April 21, 2004

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Application of BANEY et al.

Application No.: 10/716,369

Examiner:

Date Filed: November 18, 2003

Group: 1755

For: PROCESS FOR SIBCN BASED PRECERAMIC POLYMERS
AND PRODUCTS DERIVABLE THEREFROM

CERTIFICATE UNDER 37 CFR 1.8(a)

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Date: April 21, 2004

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to the Duty to Disclose under 37 C.F.R. §1.56, Applicants hereby disclose information that may be relevant to the Examiner's consideration of the above-identified application and the patentability of its claims.

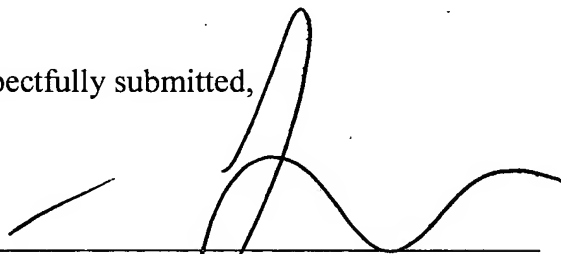
In accordance with Rules 56, 97, and 98 of the Rules of Practice in Patent Cases (37 C.F.R. §§ 1.56, 1.97, and 1.98), Form PTO/SB/08A&B and copies of references cited therein are submitted for consideration by the Examiner. While the references provided in this Information Disclosure Statement may be material to patentability pursuant to 37 C.F.R. § 1.56, it is not intended to constitute an admission that any reference referred to herein is prior art for this invention unless specially designated as such. Also, in accordance with 37 C.F.R. § {WP177028;1}

In re Application of: BANEY et al.
Application No.: 10/716,369
Filed: November 18, 2003
Group Art Unit:
For: PROCESS FOR SIBCN BASED PRECERAMIC POLYMERS
AND PRODUCTS DERIVABLE THEREFROM

1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. § 1.56(a) exists.

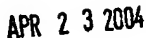
This Information Disclosure Statement is being filed before the issuance of a first office action on the merits of the application (37 C.F.R. 1.97(b)(3)); therefore, no fee is believed to be due. However, if any fee is due, the Commissioner is authorized to charge any such fee and any additional fees due or credit any overpayment to Deposit Account No. 50-0951.

Respectfully submitted,



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Docket No. 5853-464



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Substitute for form 1449/PTO

(Use as many sheets as necessary)

Sheet	1	of	1
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Complete if Known

Application Number	10/716,369
Filing Date	November 18, 2003
First Named Inventor	BANEY et al.
Art Unit	1755
Examiner Name	
Attorney Docket Number	5853-464

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

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		Application Number	10/716,369
		Filing Date	November 18, 2003
		First Named Inventor	BANEY et al.
		Art Unit	1755
		Examiner Name	
Sheet 1	of 3	Attorney Docket Number	5853-464

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		WEINMANN et al., "Boron-containing polysilylcarbodi-imides: a new class of molecular precursors for Si-B-C-N ceramics," Journal of Organometallic Chemistry, 541:345-353, 1997.	
		RIEDEL et al., "A silicoboron carbonitride ceramic stable to 2,000C," Nature, 382:796-798, 1996.	
		WEINMANN et al., "Synthesis and Thermal Behavior of Novel Si-B-C-N Ceramic Precursors," Chem. Mater., 12:623-632, 2000.	
		BILL et al., "Precursor-derived Si-(B-)C-N ceramics: thermolysis, amorphous state and crystallization," Applied Organometallic Chemistry, 15:777-793, 2001.	
		VENKATESWARA et al., "Effect of precursors, methylation agents and solvents on the physicochemical properties of silica aerogels prepared by atmospheric pressure drying method," Journal of Non-Crystalline Solids, 296:165-171, 2001.	
		SCHUHMACHER et al., "Solid-state NMR and FT IR studies of the preparation of Si-B-C-N ceramics from boron-modified polysilazanes," Applied Organometallic Chemistry, 15:809-819, 2001.	
		BANEY et al., "Methylchloropolysilanes and Derivatives Prepared from the Redistribution of Methylchlorosilanes," Organometallics, 2:859-864, 1983.	
		CHOONG et al., "Silicon Carbonitride from Polymeric Precursors: Thermal Cross-Linking and Pyrolysis of Oligosilazane Model Compunds," Chem. Mater., 4:141-146, 1992.	
		FUNAYAMA et al., "Synthesis of a Polyborosilazane and Its Conversion into Inorganic Compounds," J. Am. Ceram. Soc., 76:717-723, 1993.	
		WIDEMAN et al., "Reactions of Monofunctional Boranes with Hydridopolysilazane: Synthesis, Characterization, and Ceramic Conversion Reactions of New Processible Precursors to SiNCB Ceramic Materials," Chem. Mater. 9:2218-2230, 1997.	

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		Filing Date	November 18, 2003
		First Named Inventor	BANEY et al.
		Art Unit	1755
Examiner Name			
Sheet 2 of 3	Attorney Docket Number	5853-464	

NON PATENT LITERATURE DOCUMENTS			
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		GERVAIS et al., "Sol-Gel-Derived Silicon-Boron Oxycarbide Glasses Containing Mixed Silicon Oxycarbide (SiC _x O _{4-x}) and Boron Oxycarbide (BCyO _{3-y}) Units," 84:2160-2164, 2001.	
		LI et al., "Preparation of Si-C-N-Fe magnetic ceramics from iron-containing polysilazane," Applied Organometallic Chemistry, 17:120-126, 2003.	
		WIDEMAN et al., "Boron-modified Polysilycarbodi-imides as Precursors for Si-B-C-N Ceramics: Synthesis, Plastic-forming and High-temperature Behavior," Appl. Organometal. Chem., 12:725-734, 1998.	
		WAN et al., "Effect of Ammonia Treatment on the Crystallization of Amorphous Silicon-Carbon-Nitrogen Ceramics Derived from Polymer Precursor Pyrolysis," J. Am. Ceram. Soc., 85:554-564, 2002.	
		SU et al., "Synthesis, Characterization, and Ceramic Conversion Reactions of Borazine-Modified Hydridopolysilazanes: New Polymeric Precursors to SiNCB Ceramic Composites," Chem. Mater., 5:547-556, 1993.	
		FUNAYAMA et al., "Conversion mechanism of polyborosilazane into silicon nitride-based ceramics," Journal of Materials Science, 30:410-416, 1995.	
		CINIBULK et al., "Characterization of Oxidized Polymer-Derived SiBCN Fibers," J. Am. Ceram. Soc., 84:2197-2202, 2001.	
		MULLER et al., "Short-Range Ordering in Amorphous Si ₃ B ₃ N ₇ As Determined by Multinuclear NMR Spectroscopy," Chem. Mater., 12:2341-2346, 2000.	
		SCHUHMACHER et al., "Solid-state NMR and FT IR studies of the preparation of Si-B-C-N ceramics from boron-modified polysilazanes," Appl. Organometal. Chem., 15:809-819, 2001.	
		WIDEMAN et al., "Synthesis, Characterization, and Ceramic Conversion Reactions of Borazine/Silazane Copolymers: New Polymeric Precursors to SiNCB Ceramics," Chem. Mater., 7:2203-2212, 1995.	

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Sheet	3	of	3
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		JESCHKE et al., "A magnetic resonance study on the structure of amorphous networks in the Si-B-N(-C) system," Journal of Non-Crystalline Solids, 260:216-227, 1999.	
		ADHYARU et al., "Solid-state cross-polarization magic angle spinning 13C and 15N NMR characterization of Sepia melanin, Sepia melanin free acid and Human hair melanin in comparison with several model compounds," Magnetic Resonance in Chemistry, 41:466-474, 2003.	
		BRENDLER et al., "15N CP/MAS NMR as an instrument in structure investigations of organosilicon polymers," Fresenius J. Anal. Chem., 363:185-188, 1999.	
		WANG et al., "Novel Silicon-Boron-Carbon-Nitrogen Materials Thermally Stable up to 2200C," J. Am. Ceram. Soc., 84:2179-2183, 2001.	
		WIDEMAN et al., "Second-Generation Polymeric Precursors for BN and SiNCB Ceramic Materials," Appl. Organometal. Chem., 12:681-693, 1998.	
		TOREKI et al., "POLYMER-DERIVED SILICON CARBIDE FIBERS WITH LOW OXYGEN CONTENT AND IMPROVED THERMOMECHANICAL STABILITY," Composites Science and Technology, 51:145-159, 1994.	
		SRIVASTAVA et al., "Synthesis of Silyborazines and Their Utilization as Precursors to Silicon-Containing Boron Nitride," Eur. J. Inorg. Chem., 855-859, 1998.	
		IWAMOTO et al., "Crystallization Behavior of Amorphous Silicon Carbonitride Ceramics Derived from Organometallic Precursors," J. Am. Ceram. Soc., 84:2170-2178, 2001.	
		JALOWIECKI et al., "Interface characterization of nanosized B-doped Si3N4/SiC ceramics," Composites Part A, 27A:717-721, 1996.	
		HERMANN et al., "Structure and Electronic Transport Properties of Si-(B)-C-N Ceramics," J. Am. Ceram. Soc., 84:2260-2264, 2001.	

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